Mod 2 Day 3: Analysis & Planning I

10/18/2013

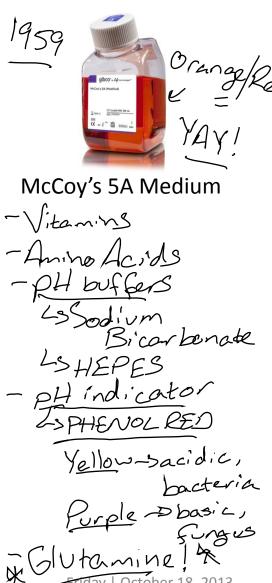
1. Pre-lab Discussion

- 2. <u>Tissue Culture</u>: Seed cells for Mod 2 Day 4
- 3. Sequencing Analysis
- 4. Paper Discussion

Announcements

- Mod 2 Day 5 presenters MUST sign up for a paper today
- Mod 2 Report outlined on the Wiki
- Quiz next time, but no pre-lab discussion
- Watch Shannon's video demonstration before Mod 2 Day 4

Tissue Culture: Media components





NEAA

Amino Acids

(a) Coctai)

-Glycine

-Alanine

- Growth

Viability

Non-Essential





Sodium Pyruvate - Carbon source Sor alycolysis - High metabolic

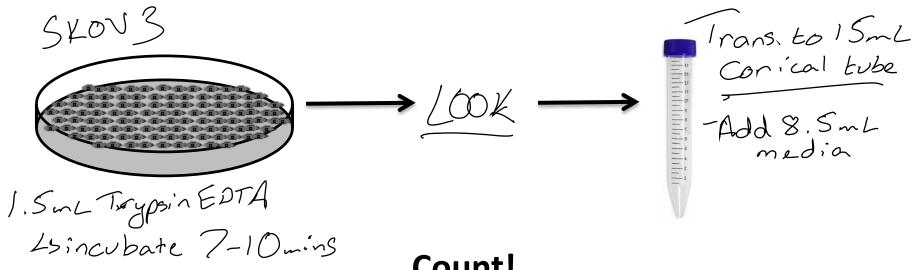


+ etal Bovine Serum - Cytollines - Lipids -Signalling for prolif GEGF!

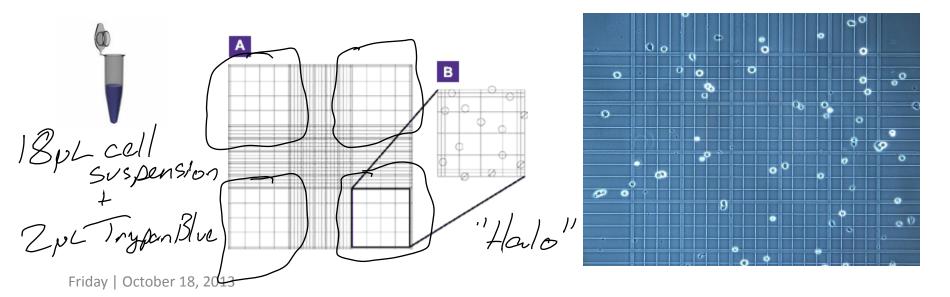
Tissue Culture checklist

4. Confluency 1/2 of SA covered -> est

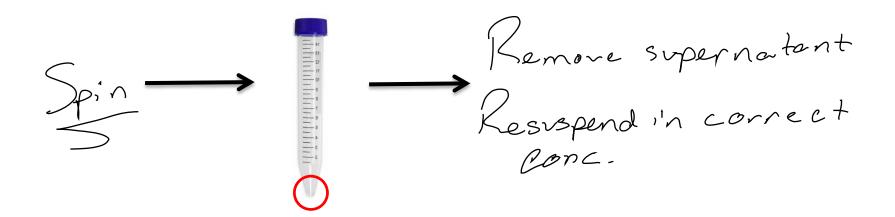
Tissue Culture: M2D3 Procedure



Count!



Tissue Culture: M2D3 Procedure



Seeding Density:

Want: 21,000 cells/cm²

Well surface area: 9.5 cm²

Checklist:

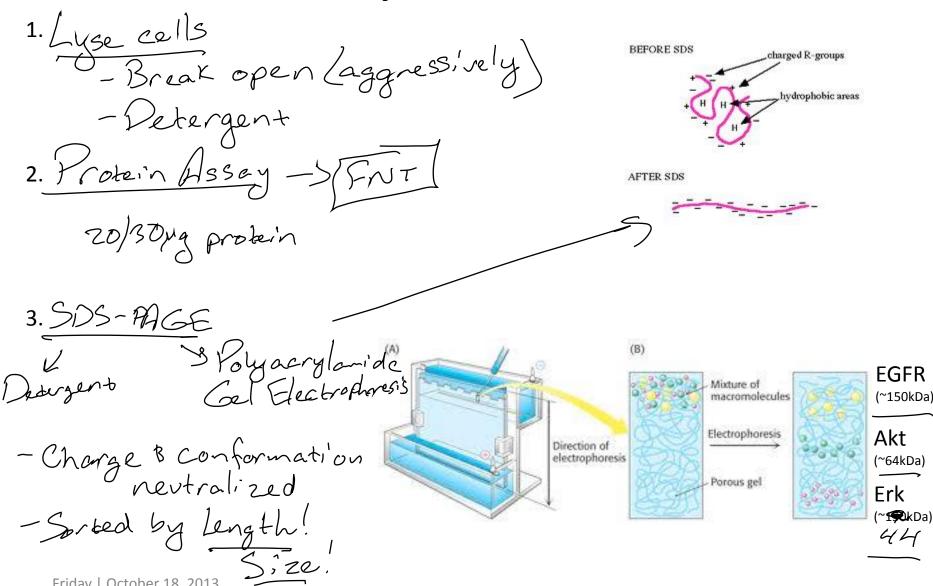
1. Well mixed cells

※ 2. Distribute within wells **※**

3. 4 hour serum starvation before experiment

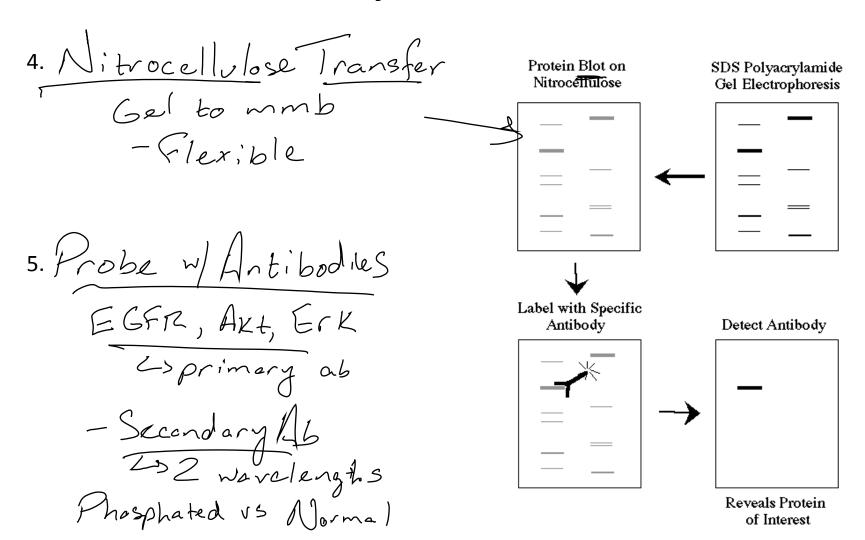


Mod 2 Day 4: Western Blot

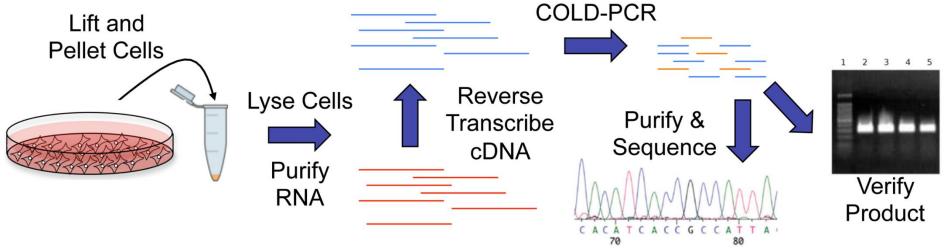


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Mod 2 Day 4: Western Blot



Mutation Analysis



Positive Control: HCC-827 NSCLC (Exon 19) On Talk page

Negative Control: MA-MBZ31 B.E.

Experiment: 5 Lov3 - 719

1st 3 Last So > Poor quality!

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Sanger Sequencing overview

Harose ge Four dye-labelled dideoxyneucleotides added Harose of dNTPs Old Capilary
Electrophoresis "Chain terminating reaction" -> DNA polymerase stops DNA extension w/d:-dNTP 4 RXN'S - sequencing
ATI G. C W/DVA polymerch Tunescently

Today in lab:

Red, Orange, Yellow, Green teams:

Tissue Culture

Blue, Pink, Purple, and White teams:

Sequencing

- Paper discussion at 3:30
- Next time: busy!
 - Stimulate & lyse cells, measure protein conc, run SDS-PAGE
 - Today's FNT will save time!
 - Watch Shannon's discussion video

Announcements

- W/F sequencing rxns no good ☺
 - thoughts on why
 - plan going forward
- BL2 reminders
- Quiz next time at 1:05 sharp (long day!)
- Figures for today's discussion
 - In FC Dropbox or to 20109.talk AT gmail.com
- Switch who goes to TC first: O/Y/G/B